

DEVAL L, PATRICK GOVERNOR TIMOTHY P. MURRAY LIEUTENANT GOVERNOR JUDYANN BIGBY, MD SECRETARY

JOHN AUERBACH COMMISSIONER

The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

07/13/2011

Omar Gonzalez-Pagan Assistant District Attorney, Suffolk County

Dear ADA Gonzalez-Pagan,

Enclosed is the information you requested in regards to Commonwealth vs. are copies of the following:

Included

- 1. Curriculum Vitae for Annie Dookhan and Daniela Frasca.
- 2. Drug Analysis Laboratory Receipt.
- 3. Control Cards with analytical results for samples #
- 4. Analysis sheets with custodial chemist's hand notations and test results.
- 5. GC/Mass Spectral analytical data for samples #

Daniela Frasca was the custodial chemist and performed the preliminary testing and net weight for this sample. Annie Dookhan was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

ba

Sincerely

Annie Dookhan

Chemist II

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6631

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry. University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of all analytical instruments.
- *Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- * Responsible for the Quality Control/Quality Assurance program for the drug lab.
- *Notary Public.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 - 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- *Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice - Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Education

Boston University School of Medicine, Boston MA

Currently enrolled in the Biomedical Forensic Science MS Program

Suffolk University, Boston, MA

Graduated in 05/1996 and received a Bachelor of Science in Biochemistry

EXPERIENCE

Massachusetts State Laboratory Institute/DPH, Jamaica Plain, MA 01/2001 – present Drug Laboratory: Chemist II

- Analysis of all substances by chemical screening, microscopy, and instrument confirmation to determine the presence of drugs for law enforcement agencies in the Commonwealth of Massachusetts.
- Appointed assistant analyst on January 29, 2001 by the Assistant Commissioner of DPH
- Completed four weeks of training in drug analysis under the supervision of senior chemists.

Quest Diagnostics Incorporated, Cambridge, MA

09/1996 - 10/2001

Department of Toxicology: Medical Technologist I

- Handles comprehensive toxic analysis, therapeutic drug monitoring, forensic drug screening, and compound ID's of biohazard samples utilizing standard operating procedures in clinical toxicology.
- Entered data and interpreted results for reporting
- QC/QA of multiple analytical instrumentation as well as maintenance
- Completed 60 days of training under the supervision of doctorate level toxicologists.

Additional Training

Northeastern Association of Forensic Scientists

Designer Drugs

Clandestine labs

Agilent Instruments and Software

Digital Photography

McCrone Research Institute

Forensic Polarized Microscopy

Polarized Microscopy of Illicit Drugs and Excipients

Massachusetts State Laboratory Institute

Expert Witness

Raman Spectroscopy

Associations and Programs

	Northeastern Association of Forensic Scientists (NEAFS)	2001 - present
•	The International Association of Forensic Toxicologists (TIAFT)	2003 - present
•	The International Association of Therapeutic Drug Monitoring	2003 - present
	And Clinical Toxicology (IATDMCT)	
•	Massachusetts State Science Fair Judge	2000 - present
•	Middle School State Science Fair Judge	2006 - present
•	Volunteer Science Project Mentor/Tutor	2003 - present
	for the TTT Mentor Program	_



CC #		~>~
воок#	64	
PAGE #	150	
DESTRUCT	ION #	

DRUG RECEIPT	PA	GE#		
	DE	STRUCTION #		
District/Unit A-1 DCU	***************************************			
Name & Rank of Arresting Officer\$\sigmu_{\text{E}}	o Wn Dwa	<i>N</i>	ID# <u>/</u>	066
DEFENDANT'S NAME	AD	DRESS	CITY	STATE
	, ·-		Rox	MA
			Baston	MA
			BOSPON	MH
			LAB U	SE ONLY
DESCRIPTION OF ITEMS SUBMIT	ſED	GROSS QUANTITY	GROSS WEIGHT	ANALYSIS NUMBER
CRACK COCAHDE	***************************************	1 0/13	3.99	
	·		1119	
,				
	MACHINE TO THE ACTION AND ADMINISTRATION AND ADMINI			
		·		
	4 10 10 10 10 10 10 10 10 10 10 10 10 10			pathological control of the state of the sta
To be completed by ECU personnel o	nly			
Name and Rank of Submitting Officer	Mu	~ Xgz	ID# _937	20
Received by	- OU	7	Date	11-11
	-0-/0		ECU Control #	

Mo. Date Analyzed: **66-30-11** City: Doston D.C.U. Polics Officer: F.C. Diana Lepez

Def: Amount: Subst. 905 No Cont. 1 Cont. W

1

Date Recid. 05/11/1011 No. Analyzed:

rows With 3.330 Net Mit **0.139** Wiester **5**

ション

Public Cocame Findings cocaine

DRUG POWDER ANALYSIS FORM

SAMPLE #

AGENCY BOSTON ANALYST ON

PHYSICAL DESCRIPTION:

En wor

Substance in I PB

Marg fracd -

Meck -

Cabally - + Mand

Gold +

TLTA -, typical

Gross M. O. 1677, (dauble bagged)

Norum. 0.1350g

PRELIMINARY TEST RESULTS

RESULTS (paging

GC/MS CONFIRMATORY TEST

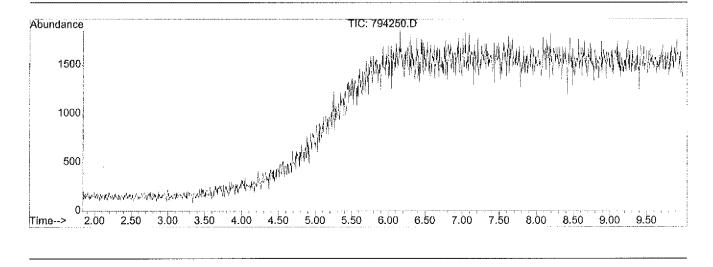
RESULTS COCKING

File Name : F:\SYSTEM7\06_29_11\794250.D

Operator : ASD

Date Acquired : 29 Jun 2011 17:45

Sample Name : BLANK Submitted by : DXF Vial Number : 2 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

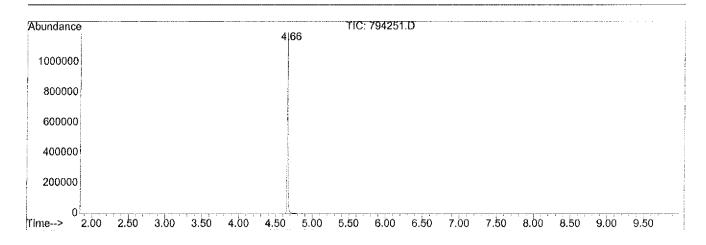
File Name : F:\SYSTEM7\06_29_11\794251.D

Operator : ASD

Date Acquired : 29 Jun 2011 17:57

Sample Name : COCAINE STD

Submitted by : DXF Vial Number 16 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.659	1078474	100.00	100.00

File Name : F:\SYSTEM7\06 29 11\794251.D

Operator : ASD

Date Acquired : 29 Jun 2011 17:57

Sample Name : COCAINE STD

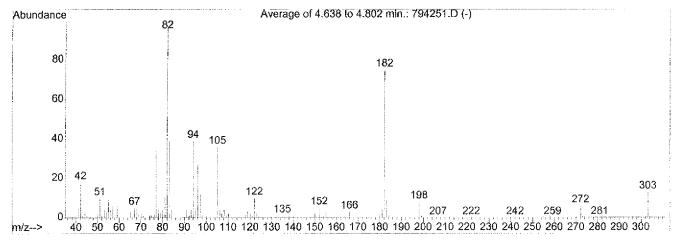
Submitted by : DXF Vial Number : 16 AcquisitionMeth: DRUGS Integrator : RTE

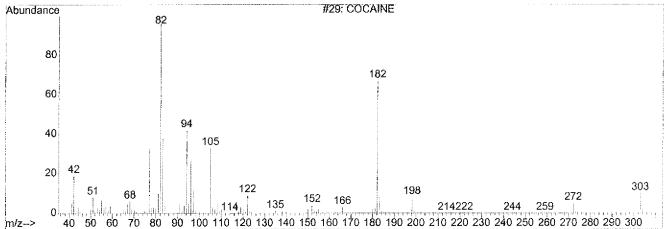
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\DATABASE\SLI.L COCAINE	000050-36-2	99





794251.D

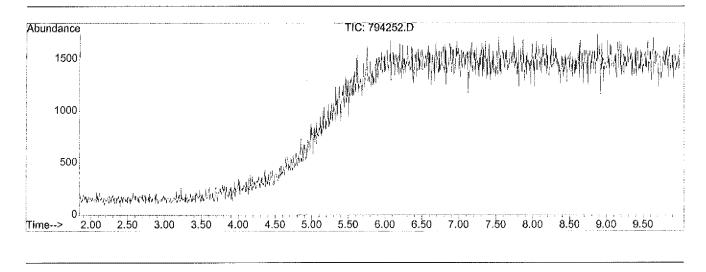
Tue Jul 12 12:35:24 2011

File Name : F:\SYSTEM7\06 29 11\794252.D

Operator : ASD

Date Acquired : 29 Jun 2011 18:10

Sample Name : BLANK Submitted by : DXF Vial Number : 2 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

794252.D

Tue Jul 12 12:35:27 2011

Area Percent / Library Search Report

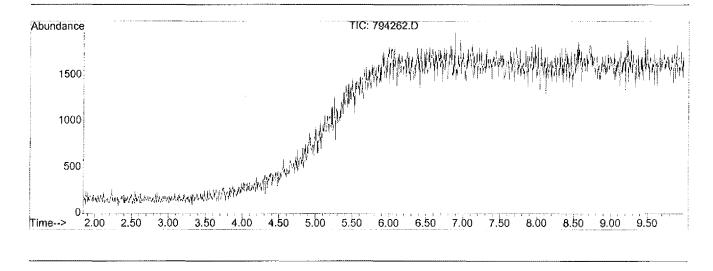
Information from Data File:

File Name : F:\SYSTEM7\06_29_11\794262.D

Operator : ASD

Date Acquired : 29 Jun 2011 20:16

Sample Name : BLANK Submitted by : DXF Vial Number : 2 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

File Name : F:\SYSTEM7\06_29_11\794263.D

: ASD Operator

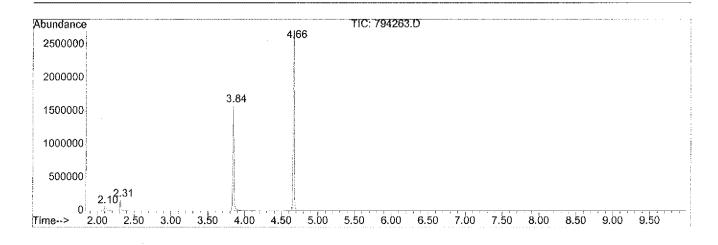
Date Acquired : 29 Jun 2011 20:29

Sample Name Submitted by

Vial Number

Integrator

: DXF 63 AcquisitionMeth: DRUGS : RTE



Ret. Time	Area	Area %	Ratio %	
2.102	139686	2.61	4.20	
2.313	163057	3.04	4.90	
3.844	1728433	32.26	51.97	
4.665	3325848	62.08	100.00	

File Name : F:\SYSTEM7\06_29_11\794263.D

Operator : ASD

Date Acquired : 29 Jun 2011 20:29

Sample Name :

Submitted by : DXF
Vial Number : 63
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

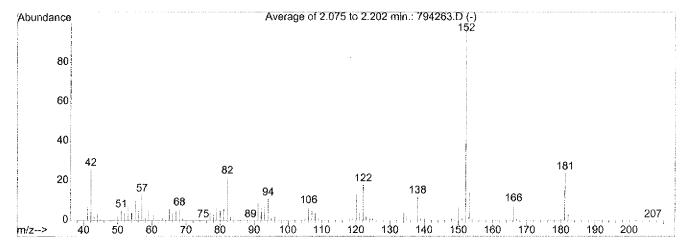
Minimum Quality: 90

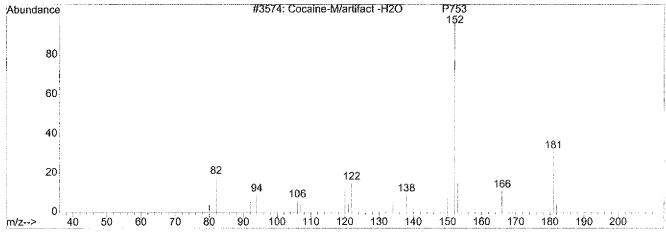
C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID		CAS#	Qual
 1	2.10	C:\DATABASE\PMW_TOX2.L			
		Cocaine-M/arti \overline{f} act -H2O		000000-00-0	96
		MDA-M (desmethylenyl-methyl-)	ME	@ 000000-00-0	37
		Metipranolol-M/artifact AC		000000-00-0	32





794263.D

Tue Jul 12 12:35:36 2011

File Name : F:\SYSTEM7\06_29_11\794263.D

Operator : ASD

Date Acquired : 29 Jun 2011 20:29

Sample Name

Submitted by : DXF
Vial Number : 63
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

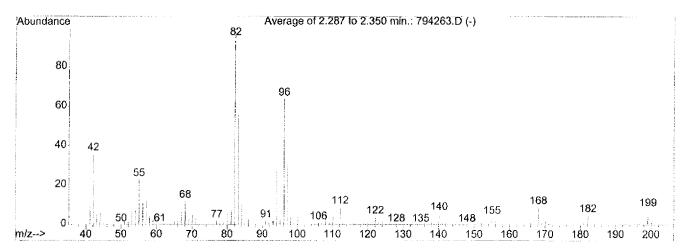
\SLI.L Minimum Quality: 90

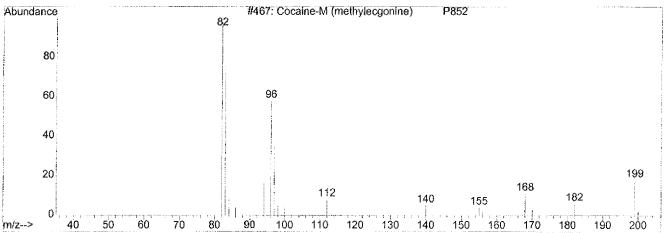
C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
 2	2.31	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M (met $\overline{\mathrm{h}}$ ylecgonine)	007143-09-1	93
		Cocaine-M (methylecgonine) AC	000000-00-0	45
		Lobeline artifact	000000-00-0	9





794263.D

Tue Jul 12 12:35:37 2011

Page 3

File Name : F:\SYSTEM7\06 29 11\794263.D

Operator : ASD

Date Acquired : 29 Jun 2011 20:29

Sample Name :

Submitted by : DXF
Vial Number : 63
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

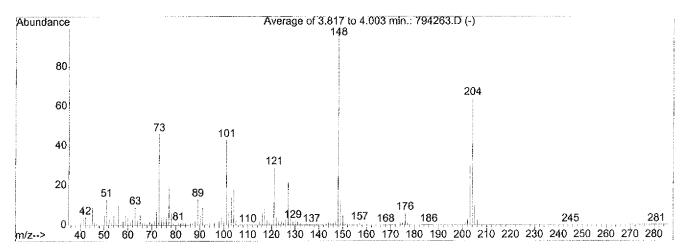
Minimum Quality: 90

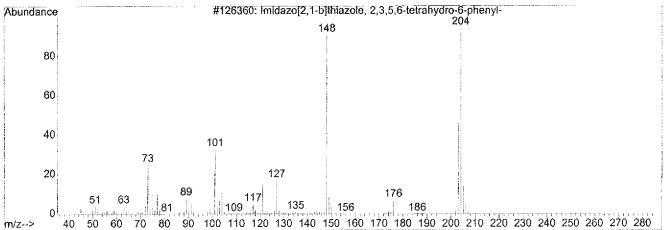
C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID		CAS#	Qual
 3	3.84	C:\DATABASE\NIST98.L			
		<pre>Imidazo[2,1-b]thiazole,</pre>	2,3,5,6-tet	006649-23-6	98
		<pre>Imidazo[2,1-b]thiazole,</pre>	2,3,5,6-tet	006649-23-6	98
		<pre>Imidazo[2,1-b]thiazole,</pre>	2,3,5,6-tet	006649-23-6	97





794263.D

Tue Jul 12 12:35:38 2011

: F:\SYSTEM7\06_29_11\794263.D File Name

Operator : ASD

Date Acquired : 29 Jun 2011 20:29

Sample Name

Submitted by DXF Vial Number 63 AcquisitionMeth: DRUGS Integrator : RTE

C:\DATABASE\SLI.L Search Libraries:

Minimum Quality: 90 Minimum Quality: 90

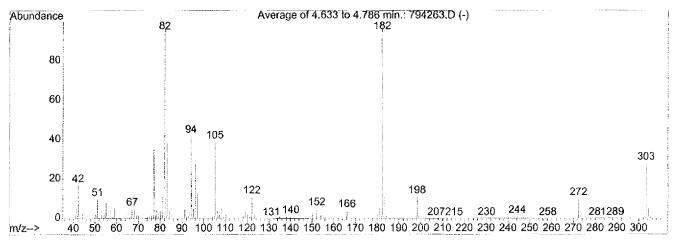
C:\DATABASE\PMW TOX2.L

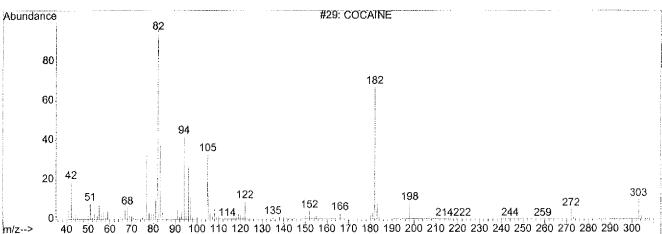
C:\DATABASE\NIST98.L

PK# Library/ID CAS# RTQual

C:\DATABASE\SLI.L 4.66

99 000050-36-2 COCAINE





794263.D

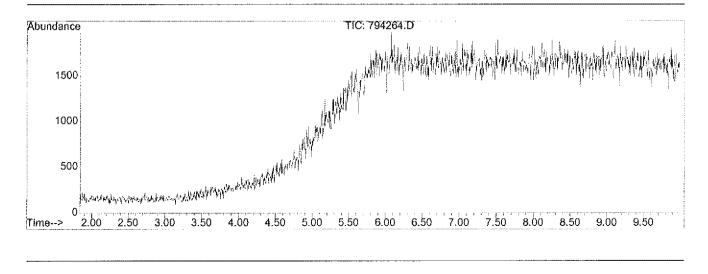
Tue Jul 12 12:35:38 2011

File Name : F:\SYSTEM7\06_29_11\794264.D

Operator : ASD

Date Acquired : 29 Jun 2011 20:42

Sample Name : BLANK Submitted by : DXF Vial Number : 2 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

794264.D

^{***}NO INTEGRATED PEAKS***

Area Percent / Library Search Report

Information from Data File:

File Name : F:\SYSTEM7\06_29_11\794267.D

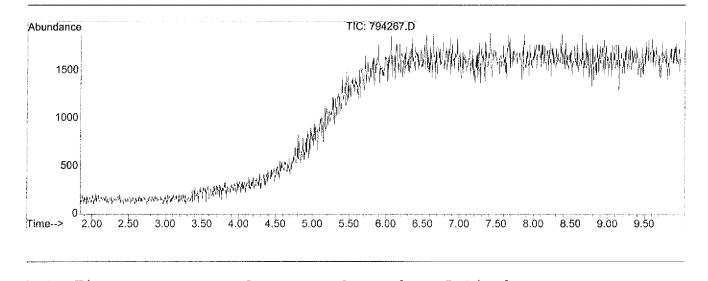
Operator : ASD

Date Acquired : 29 Jun 2011 21:20

Sample Name : BLANK

Submitted by :

Vial Number : 2 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

794267.D

Tue Jul 12 12:35:48 2011

File Name : F:\SYSTEM7\06_29_11\794268.D

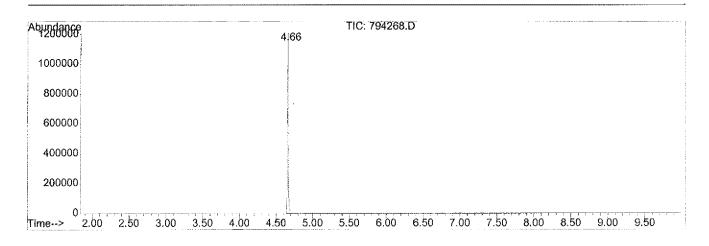
Operator : ASD

Date Acquired : 29 Jun 2011 21:32

Sample Name : COCAINE STD

Submitted by :

Vial Number : 16 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.659	1079123	100.00	100.00

File Name : F:\SYSTEM7\06 29 11\794268.D

Operator : ASD

Date Acquired : 29 Jun 2011 21:32

Sample Name : COCAINE STD

Submitted by :

Vial Number : 16 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

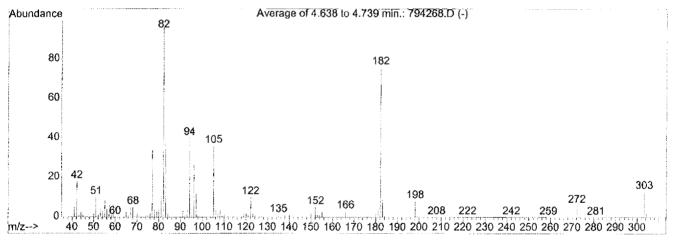
Minimum Quality: 90

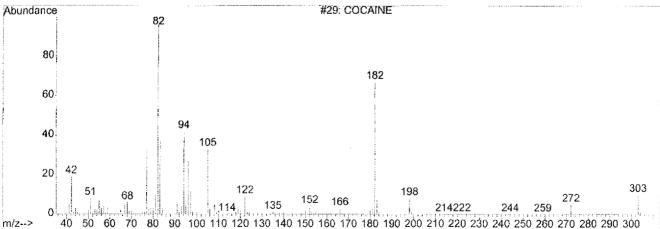
C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\DATABASE\SLI.L	000050-36-2	99





794268.D

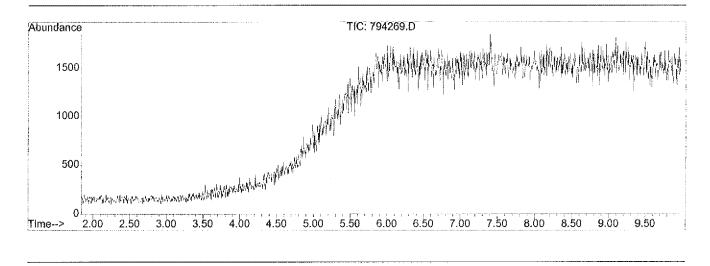
Tue Jul 12 12:35:52 2011

File Name : F:\SYSTEM7\06 29 11\794269.D

Operator : ASD

Date Acquired : 29 Jun 2011 21:45

Sample Name : BLANK Submitted by : DXF Vial Number : 2 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

794269.D

Tue Jul 12 12:35:56 2011